

*See also
C.*

NOV 25 1947

CLINTON LABORATORIES 1825

CENTRAL FILES NUMBER
47-11- 446

DATE: November 19, 1947

SUBJECT: 706-D H. P. Report for Week Ending 11-15-47

TO: C. H. Perry


FROM: L. C. Johnson

INV.
64

Please sign and date before reading this report:

INV.
52

Distribution:

C. H. Perry	L. B. Emlet	L. C. Johnson
K. Z. Morgan	E. J. Witkowski	C. Files
F. Western 	A. F. Rupp	R. Files
G. E. Haynes	S. A. Reynolds	
M. C. Leverett		

INV.
52

This document has been approved for release
to the public by:

David R. Hamlin 6/28/95
Technical Information Officer Date
ORNL Site

CLASSIFICATION CANCELLED

DATE 8/29/67

For The Atomic Energy Commission

November 19, 1947

H. F. Cancell
Chief, Declassification Branch

To: C. H. Perry

From: L. C. Johnson

Subject: 706-D H. P. Report for Week Ending 11-15-47

At 8:00 A.M. on 11-9-47, Operations began loading slugs in Cell A for Barium run #22; 311 slugs were loaded. On 11-10-47 at 12:15, 312 slugs were loaded. On 11-12-47 at 8:10 A.M., 197 slugs were loaded. Final slug loading for this period was started at 1:00 P.M. on 11-15-47, when 145 slugs were loaded.

The Chemist had a small spill in the South Hot Lab. at 5:30 P.M. on 11-10-47, reading 500 mr/hr @ 2" C.P.W.O. This spot has been reduced to 25 mr/hr @ 2" C.P.W.O.

On 11-11-47, at 4:15 P.M., [redacted] arm was found to be reading 19 mr/hr @ 3" with Zeus. This contamination was picked up while decontaminating Sr equipment which read 85 mr/hr @ 2" C.F.W.O. He cleaned his arm with soap and water to below tolerance.

On 11-11-47, at 5:30 P.M., a survey of the Isotope Packing Room showed several hot areas. Operations were notified and decontamination procedures were begun immediately. Hot areas before and after being decontaminated are as follows with all readings @ 1" C.P.W.O.:

	<u>Before</u>	<u>After</u>
Floor	250 mr/hr	10 mr/hr
Sink	400 mr/hr	25 mr/hr
Valves on sink	400 mr/hr	25 mr/hr
Sampling device	35 mr/hr	Being decontaminated

This document contains restricted data within the meaning of the Atomic Energy Act of 1946 and/or information affecting the national defense of the United States within the meaning of the Espionage Act, 50 U.S.C. 31 and 32. Its unauthorized transmission or the revelation of its contents in any manner to an unauthorized person is prohibited and may result in criminal or civil penalty.

Thirty smears were taken on the same shift in the Isotope Packing Room floor and equipment. Twelve of the 30 smears were above 200 c/m. The range of the counts were from 62 c/m to 24,583 c/m. The room was again decontaminated, and at 9:15 P.M. on 11-12-47, the room was again smeared with 40 smears; of these 6 were above 200 c/m. Once again decontamination was started, and now this room is in good condition.

Smear survey of North, South, and West Hot Labs. was taken at 3:00 A.M. on 11-12-47 with 50 smears; 46 of these smears counted above 200 c/m and the highest count was 999 c/m. A re-smear of South and West Labs. was made at 5:00 A.M. on 11-13-47. Thirty-two were taken and 28 were still above 200 c/m. This area is still smearing above 200 c/m.

On 11-13-47, 706-D Chemistry lab was smeared; 50 smears were taken, 2 were above 200 c/m. These spots were cleaned immediately and re-smearred; both counted below 200 c/m.

On 11-12-47, at 11:15 A.M., [REDACTED] shoes read 11 mr/hr @ 1" C.P.W.O.; also, his hair, clothes and hands were counting above tolerance. After changing clothes and shoes, and taking a bath he disposed of all radiation. Again, at 2:30, his clothes were found to be reading 12 mr/hr @ 1" C.P.W.O. He could give no reason for this contamination unless it was picked up while loading Isotopes.

At no time during this period did the air activity reach 1×10^{-9} /cc (Δ).

Average readings at the settling basin in mr/hr during this period were as follows:

<u>Date</u>	<u>Inlet Walk</u>	<u>Outlet Walk</u>	<u>East Bank</u>	<u>West Bank</u>
11-10-47	21.4	3.2	9.3	15.3
11-12-47	19.7	2.1	9.2	15.0
11-14-47	19.3	2.3	10.6	15.5

Linton C. Johnson
Linton C. Johnson

LCJ:cs